

Title (en)

Dynamic fluid power monitoring system for separate actuators

Title (de)

Dynamisches Strömungskraftüberwachungssystem für getrennte Auslöser

Title (fr)

Système de surveillance de la puissance d'un fluide dynamique pour des actionneurs séparés

Publication

EP 1816356 B1 20120222 (EN)

Application

EP 06256310 A 20061212

Priority

US 34598506 A 20060202

Abstract (en)

[origin: EP1816356A2] A control valve apparatus couples pressurized fluid to first and second actuators using first and second double valves (30,31). The first double valve (30) includes first and second crossover passages (70,71) and first and second pilots (34,36). The second double valve (31) includes third and fourth crossover passages (72,73) and third and fourth pilots (67,50). A first interconnection (55) couples the first crossover passage (70) with the third pilot fluid inlet (47). A second interconnection (56) couples the second crossover passage (71) with the fourth pilot fluid inlet (50). A third interconnection (57) couples the third crossover passage (72) with the first pilot fluid inlet (34). A fourth interconnection (58) couples the fourth crossover passage (73) with the second pilot fluid inlet (36). Thus, operation of each pilot depends upon receiving pressurized fluid from the other double valve which is only present when the other double valve is not in a fault condition.

IPC 8 full level

F15B 20/00 (2006.01)

CPC (source: BR EP US)

F15B 20/001 (2013.01 - BR EP US); **F15B 20/008** (2013.01 - BR EP US); **F16K 11/04** (2013.01 - BR); **Y10T 137/87209** (2015.04 - EP US); **Y10T 137/87225** (2015.04 - EP US)

Cited by

CN101865183A; US9651068B2

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

EP 1816356 A2 20070808; **EP 1816356 A3 20101201**; **EP 1816356 B1 20120222**; BR PI0700226 A 20071106; BR PI0700226 B1 20190115; CN 101025174 A 20070829; CN 103790887 A 20140514; CN 103790887 B 20160817; ES 2378324 T3 20120411; JP 2007205568 A 20070816; JP 4874815 B2 20120215; US 2007175527 A1 20070802; US 7438086 B2 20081021

DOCDB simple family (application)

EP 06256310 A 20061212; BR PI0700226 A 20070202; CN 200710004770 A 20070130; CN 201410069526 A 20070130; ES 06256310 T 20061212; JP 2007005815 A 20070115; US 34598506 A 20060202